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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

780.29767X00

Applicants: Thomas J. CAMPANA, JR. et al  
Serial No.: 07/702,938  
Filed: May 20, 1991  
For: SYSTEM FOR INTERCONNECTING ELECTRONIC  
MAIL SYSTEMS BY RF COMMUNICATIONS  
Group: 2608  
Examiner: G. Oehling  
Batch: I63

**AMENDMENT PURSUANT TO 37 C.F.R. §1.312(a) AND  
RESPONSE TO EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE**

Honorable Commissioner of  
Patents and Trademarks  
Washington, D. C. 20231

March 15, 1995

Sir:

**IN THE SPECIFICATION:**

Please amend the specification as follows:

Page <sup>OK</sup> 7, line 26, delete "the Assignee's".

Page 10, line 16, change "transmitter to  
--transmitters--.

Page 16, line 3, after "and" insert --be--.

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#28/ Amoldt F  
(R-3/2) (NE)  
R. Morgan  
4/10/95

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Page 18, line 18, after "network" insert a period ---.;  
and

line 19, delete "invention."

Page 22, line 16, change "transmission" to  
--transmissions--.

Page 25, line 14, change "transmission" to  
--transmissions--.

Page 27, at both lines 3 and 13, change "transmission" to  
--transmission--.

Page 34, line 9, delete "While the utilization of area";  
line 10, delete the line in its entirety;  
line 11, delete "of the present invention, it"  
and insert therefor --It--;  
line 13, delete "with the present invention".

Page 36, line 21, change "relays" to --transfers--.

Page 37, line 22, change "relay" to --transfer--; and  
line 34, change "relays" to --transfers--.

Page 39, line 2, change "relays" to --transfers--.

Page 40, line 19, change "relaying" to --transferring--.

Page 42, line 31, change "104" to --314--.

Page 43, line 1, delete "the originating processer" and insert therefor --one of the originating processors--.

Page 44, line 12, delete "the RF transmissions of" and insert therefor --RF transmission by--; and  
line 29, change "processor" to --processors--.

Page 46, line 1, change "functions" to --function--; and  
line 21, change "relays" to --transfers--.

Page 47, line 31, change "relaying" to --transferring--.

Page 48, line 11, change "relaying" to --transfers--.

Page 49, line 30, change "is" to --may be--.

Page 50, line 14, change "relaying" to --transferring--.

Page 52, at both lines 5 and 7, delete "being".

Page 53, line 27, change "relay" to --transfer--.

N.E.

Page 55, line 27, change "relay" to --transfer--.

IN THE CLAIMS:

Please amend the claims as follows:

24.<sup>1</sup> (Twice Amended) A system for connecting a plurality of electronic mail systems each transmitting originated information originating from one of a plurality of originating processors to at least one of a plurality of destination processors comprising:

at least one interface switch, the at least one interface switch being coupled to each of the plurality of electronic mail systems for receiving the originated information originating from the one of the plurality of originating processors in one of the electronic mail systems for transmission to the at least one of the plurality destination processors in another of the electronic mail systems; and

[an] a RF information transmission network, coupled to the at least one interface switch, for transmitting the originated information received from the one of the at least one interface switch by RF transmission to at least one RF receiver which transfers the originated information to the at least one of a plurality of destination processors within the another of the electronic mail systems; and wherein

each of the plurality of electronic mail systems transmits other information from its plurality of originating processors to its plurality of destination processors through a wireline without using the RF information transmission network.

<sup>2</sup>  
~~25.~~ (Amended) A system in accordance with claim <sup>1</sup>~~24~~ wherein:

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cont.  
an interface address of the at least one interface switch to receive the originated information is added at the one of the plurality of originating processors originating the originated information or by the one of the electronic mail systems to the originated information; and

a destination processor address of the at least one of the plurality of destination processors to receive the originated information in the another of the electronic mail systems is added to the originated information at the one of the plurality of originating processors originating the originated information or by [one of] the one of the plurality of electronic mail systems or the interface switch to receive the originated information.

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528. (Amended) A system in accordance with claim 25<sup>2</sup>

wherein:

F<sub>2</sub>  
the originated information includes electronic mail system information used by the one of the electronic mail systems containing the one of the plurality of originating processors used during transmission of the originated information through the one of the electronic mail systems; and

the at least one interface switch [receiving the information] removes the electronic mail system information and adds to the originated information, after removal of the electronic mail system information, RF transmission network information used by the RF information transmission network during transmission of the originated information to the at least one RF receiver.

730. (Amended) A system in accordance with claim 26<sup>3</sup>

wherein:

F<sub>3</sub>  
cont.  
the originated information includes electronic mail system information used by the one of the electronic mail systems containing the one of the plurality of originating processors used during transmission of the originated information through the one of the electronic mail systems; and

the at least one interface switch [receiving the information] removes the electronic mail system information

F<sub>3</sub>  
concl.

and adds to the originated information, after removal of the electronic mail system information, RF transmission network information used by the RF information transmission network during transmission of the originated information to the at least one RF receiver.

1032. (Amended) A system in accordance with claim 229 wherein the RF information transmission network comprises:

[an] a RF information transmission network switch, the RF information transmission network switch receiving the packet from the interface switch transmits the packet and disassembles the packet into information including the originated information from the plurality of originating processors in the one of the electronic mail systems; and wherein

the RF information transmission network transmits the disassembled information including the identification number of the at least one RF receiver transferring the originated information to the at least one of the plurality of destination processors to another RF information transmission network switch in the RF information transmission network storing a file containing the identification number and any destination of the RF receiver in the RF information transmission network to which the originated information and identification number is to be transmitted by the RF information transmission network and adds any destination of

F<sub>4</sub>  
cont.

F<sub>4</sub>  
concl.

the at least one RF receiver stored in the file containing the identification number to the originated information and the RF information transmission network in response to any added destination transmits the originated information and identification number to any destination of the at least one RF receiver for RF broadcast to the at least one RF receiver.

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12  
35. (Amended) A system in accordance with claim ~~34~~ 11 wherein the RF information transmission network comprises:

[an] a RF information transmission network switch, the RF information transmission network switch receiving the packet from the interface switch transmits the packet and disassembles the packet into information including the originated information from the plurality of originating processors in the one of the electronic mail systems; and wherein

F<sub>5</sub>  
cont.

the RF information transmission network transmits the disassembled information including the identification number of the at least one RF receiver transferring the originated information to the at least one of the plurality of destination processors to another RF information transmission network switch in the RF information transmission network storing a file containing the identification number and any destination of the RF receiver in the RF information transmission network to which the originated information and identification number is to be transmitted by the RF



F<sub>5</sub>  
concl.  
information transmission network and adds any destination of the at least one RF receiver stored in the file containing the identification number to the originated information and the RF information transmission network in response to any added destination transmits the originated information and identification number to any destination of the at least one RF receiver for RF broadcast to the at least one RF receiver.

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1437. (Amended) A system in accordance with claim 38 13 wherein the RF information transmission network comprises:

F<sub>6</sub>  
cont.  
[an] a RF information transmission network switch, the RF information transmission network switch receiving the packet from the interface switch transmits the packet and disassembles the packet into information including the originated information from the plurality of originating processors in the one of the electronic mail systems; and wherein

the RF information transmission network transmits the disassembled information including the identification number of the at least one RF receiver transferring the originated information to the at least one of the plurality of destination processors to another RF information transmission network switch in the RF information transmission network storing a file containing the identification number and any destination of the RF receiver in the RF information transmission network to which the originated information and

F<sub>6</sub>  
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identification number is to be transmitted by the RF information transmission network and adds any destination of the at least one RF receiver stored in the file containing the identification number to the originated information and the RF information transmission network in response to any added destination transmits the originated information and identification number to any destination of the at least one RF receiver for RF broadcast to the at least one RF receiver.

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1635. (Amended) A system in accordance with claim 38 15 wherein the RF information transmission network comprises:

F<sub>7</sub>  
cont.

[an] a RF information transmission network switch, the RF information transmission network switch receiving the packet from the interface switch transmits the packet and disassembles the packet into information including the originated information from the plurality of originating processors in the one of the electronic mail systems; and wherein

the RF information transmission network transmits the disassembled information including the identification number of the at least one RF receiver transferring the originated information to the at least one of the plurality of destination processors to another RF information transmission network switch in the RF information transmission network storing a file containing the identification number and any destination of the RF receiver in the RF information

F<sub>7</sub>  
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transmission network to which the originated information and identification number is to be transmitted by the RF information transmission network and adds any destination of the at least one RF receiver stored in the file containing the identification number to the originated information and the RF information transmission network in response to any added destination transmits the originated information and identification number to any destination of the at least one RF receiver for RF broadcast to the at least one RF receiver.

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1842. (Amended) A system in accordance with claim 40 17 wherein the RF information transmission network comprises:

[an] a RF information transmission network switch, the RF information transmission network switch receiving the packet from the interface switch transmits the packet and disassembles the packet into information including the originated information from the plurality of originating processors in the one of the electronic mail systems; and wherein

F<sub>8</sub>  
cont.

the RF information transmission network transmits the disassembled information including the identification number of the at least one RF receiver transferring the originated information to the at least one of the plurality of destination processors to another RF information transmission network switch in the RF information transmission network storing a file containing the identification number and any

F<sub>8</sub>  
concl.

destination of the at [leas] least one RF receiver in the RF information transmission network to which the originated information and identification number is to be transmitted by the RF information transmission network and adds any destination of the at least one RF receiver stored in the file containing the identification number to the originated information and the RF information transmission network in response to any added destination transmits the originated information and identification number to any destination of the at least one RF receiver for RF broadcast to the at least one RF receiver.

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2043. (Amended) A system in accordance with claim ~~12~~ 19 wherein the RF information transmission network comprises:  
[an] a RF information transmission network switch, the RF information transmission network switch receiving the packet from the interface switch transmits the packet and disassembles the packet into information including the originated information from the plurality of originating processors in the one of the electronic mail systems; and wherein

F<sub>9</sub>  
cont.

the RF information transmission network transmits the disassembled information including the identification number of the at least one RF receiver transferring the originated information to the at least one of the plurality of destination processors to another RF information transmission

F<sub>9</sub>  
concl.

network switch in the RF information transmission network storing a file containing the identification number and any destination of the RF receiver in the RF information transmission network to which the originated information and identification number is to be transmitted by the RF information transmission network and adds any destination of the at least one RF receiver stored in the file containing the identification number to the originated information and the RF information transmission network in response to any added destination transmits the originated information and identification number to any destination of the at least one RF receiver for RF broadcast to the at least one RF receiver.

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22  
45. (Twice Amended) A method for connecting a plurality of electronic mail systems each transmitting originated information originating from one of a plurality of originating processors to at least one of a plurality of destination processors comprising:

F<sub>10</sub>  
cont.

transmitting the originated information originating from one of the plurality of originating processors in one of the electronic mail systems to an interface switch;

transmitting the originated information from the interface switch to [an] a RF information transmission network; and

transmitting the originated information with the RF information transmission network to at least one RF

receiver which transfers the originated information to the at least one of a plurality of destination processors within another of the electronic mail systems; and wherein

each of the plurality of electronic mail systems transmits other information from its plurality of originating processors to its plurality of destination processors through a wireline without using the RF information transmission network.

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23  
46. (Amended) A method in accordance with claim 22  
46 wherein:

an interface address of the interface switch is added at the one of the plurality of originating processors originating the originated information or by the one of the electronic mail systems to the originated information; and

a destination processor address of the at least one of the plurality of destination processors to receive the originated information in the another of the electronic mail systems is added to the originated information at the one of the plurality of originating processors originating the originated information or by [one of] the one of the electronic mail systems or the interface switch to receive the originated information.

2952. (Amended) A method in accordance with claim 51 2P  
comprising:

receiving the packet from the interface switch with  
[an] a RF information transmission network switch which  
disassembles the packet into information including the  
originated information from the plurality of originating  
processors in the one of the electronic mail systems; and

F 11  
the RF information transmission network transmits  
the disassembled information including the identification  
number of the at least one RF receiver transferring the  
originated information to the at least one of the plurality of  
destination processors to another RF information transmission  
network switch in the RF information transmission network  
storing a file containing the identification number and any  
destination of the at least one RF receiver in the RF  
information transmission network to which the originated  
information and identification number is to be transmitted by  
the RF information transmission network and adds any  
destination of the at least one RF receiver stored in the file  
containing the identification number to the originated  
information and the RF information transmission network in  
response to any destination of the at least one RF receiver  
transmits the originated information and identification number  
to any destination of the at least one RF receiver for RF  
broadcast to the at least one RF receiver.

3154. (Amended) A method in accordance with claim 5330 comprising:

receiving the packet from the interface switch with [an] a RF information transmission network switch which disassembles the packet into information including the originated information from the plurality of originating processors in the one of the electronic mail systems; and

F<sub>12</sub> the RF information transmission network transmits the disassembled information including the identification number of the at least one RF receiver transferring the originated information to the at least one of the plurality of destination processors to another RF information transmission network switch in the RF information transmission network storing a file containing the identification number and any destination of the at least one RF receiver in the RF information transmission network to which the originated information and identification number is to be transmitted by the RF information transmission network and adds any destination of the at least one RF receiver stored in the file containing the identification number to the originated information and the RF information transmission network in response to any destination of the at least one RF receiver transmits the originated information and identification number to any destination of the at least one RF receiver for RF broadcast to the at least one RF receiver.



~~33~~<sup>56</sup>. (Amended) A method in accordance with claim ~~55~~<sup>32</sup> comprising:

receiving the packet from the interface switch with [an] a RF information transmission network switch which disassembles the packet into information including the originated information from the plurality of originating processors in the one of the electronic mail systems; and

F<sub>13</sub> the RF information transmission network transmits the disassembled information including the identification number of the at least one RF receiver transferring the originated information to the at least one of the plurality of destination processors to another RF information transmission network switch in the RF information transmission network storing a file containing the identification number and any destination of the at least one RF receiver in the RF information transmission network to which the originated information and identification number is to be transmitted by the RF information transmission network and adds any destination of the at least one RF receiver stored in the file containing the identification number to the originated information and the RF information transmission network in response to any destination of the at least one RF receiver transmits the originated information and identification number to any destination of the at least one RF receiver for RF broadcast to the at least one RF receiver.

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~~58.~~ (Amended) A method in accordance with claim ~~57~~ 34

comprising:

receiving the packet from the interface switch with  
[an] a RF information transmission network switch which  
disassembles the packet into information including the  
originated information from the plurality of originating  
processors in the one of the electronic mail systems; and

the RF information transmission network transmits  
the disassembled information including the identification  
number of the at least one RF receiver transferring the  
originated information to the at least one of the plurality of  
destination processors to another RF information transmission  
network switch in the RF information transmission network  
storing a file containing the identification number and any  
destination of the at least one RF receiver in the RF  
information transmission network to which the originated  
information and identification number is to be transmitted by  
the RF information transmission network and adds any  
destination of the at least one RF receiver stored in the file  
containing the identification number to the originated  
information and the RF information transmission network in  
response to any destination of the at least one RF receiver  
transmits the originated information and identification number  
to any destination of the at least one RF receiver for RF  
broadcast to the at least one RF receiver.

103

37. (Amended) A method in accordance with claim 59  
comprising:

receiving the packet from the interface switch with  
[an] a RF information transmission network switch which  
disassembles the packet into information including the  
originated information from the plurality of originating  
processors in the one of the electronic mail systems; and  
the RF information transmission network transmits  
the disassembled information including the identification  
number of the at least one RF receiver transferring the  
originated information to the at least one of the plurality of  
destination processors to another RF information transmission  
network switch in the RF information transmission network  
storing a file containing the identification number and any  
destination of the at least one RF receiver in the RF  
information transmission network to which the originated  
information and identification number is to be transmitted by  
the RF information transmission network and adds any  
destination of the at least one RF receiver stored in the file  
containing the identification number to the originated  
information and the RF information transmission network in  
response to any destination of the at least one RF receiver  
transmits the originated information and identification number  
to any destination of the at least one RF receiver for RF  
broadcast to the at least one RF receiver.

#### REMARKS

The specification has been amended to improve its form for issuance as a patent. The requested amendments are consistent with amendments made previously during the prosecution of the application, do not introduce new matter and do not require reexamination of the claims.

The amendments to the claims have been made to correct certain typographical errors and improper antecedents. In claims 24, 33, 35, 37, 39, 41, 43, 45, 52, 54, 56, 58, and 60 the citation "an RF information" has been changed to "a RF information" to place it in proper grammatical form. In claims 25 and 46 the reference to "one of the one of the electronic mail systems" has been changed to "the one of the plurality of electronic mail systems" to provide proper antecedent basis. In claims 28 and 30, the recitation "the at least one interface switch receiving the information" has been changed to "the at least one interface switch". This amended recitation in claims 28 and 30 is consistent with the recitation in corresponding method claims 47 and 49. In claim 41, the spelling of the word "least" has been corrected. None of the requested amendments to the claims require reexamination or introduce new matter.

Early approval of the requested amendments is respectfully requested.

The Examiner has erroneously concluded in his February 7, 1995 Statement of Reasons for Allowance as follows: "The Applicant has defined a requirement for electronic mail systems on page 3, line 29 to page 4, line 15, as follows....Finally, **a message or message text must be entered** which is the information inputted by the person or machine which is originating the message at the originating processor."

The claims alone define any "requirement" of electronic mail required for practicing the invention. The above-referenced portion of the specification on pages 3 and 4 is a description of how some existing electronic mail systems are used. The specification in the Disclosure of Invention on pages 36-40 and the Best Mode for Carrying Out the Invention on pages 42 et. seq. does not state any "requirement" for electronic mail systems for practicing the invention. The claims define electronic mail systems as "each transmitting originated information originating from one of a plurality of originating processors to at least one of a plurality of destination processors" (claims 24 and 45).

Moreover, nothing in the prosecution history supports a conclusion that the Applicant has ever stated that the use of prior art electronic mail systems as described on page 3, line 29 to page 4, line 15 of the specification, is a requirement of the claimed invention. In fact, as the Examiner will recall, he previously, on the record, took the

view that electronic mail was not limited to any "requirement" as, for example, with reference to the Examiner's construction of the teachings of the Zabarsky et al patent in rejecting the claims.

In view of the foregoing comments, it is respectfully requested that the Examiner correct the official record to remove the above quoted statement in the "Notice of Reasons for Allowance"

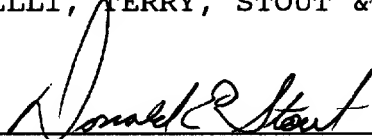
In a telephone conference with Examiner Oehling on March 7th, the Examiner stated that he would withdraw the above quoted statement regarding the "requirement" of electronic mail. The Examiner made this statement in response to the undersigned's telephone request of March 6th which requested withdrawal of the statements regarding the "requirement" of electronic mail. The basis stated on March 6th for the undersigned's telephone request that the Examiner withdraw his Statement of Reasons for Allowance regarding the "requirement" of electronic mail was the same as the reasons stated above. The Examiner's early withdrawal of this statement is respectfully requested.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of Antonelli, Terry, Stout &

Kraus, Deposit Account No. 01-2135 (780.29767X00), and please credit any excess fees to such deposit account.

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS



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DES:dlh